

PCT/JP200408662

PATENT ABSTRACTS OF JAPAN

(11) Publication number : 2004-100041

(43) Date of publication of application : 02.04.2004

(51) Int.Cl.

C22C 9/00
// B23K 11/30

(21) Application number : 2003-198393

(71) Applicant : HONDA MOTOR CO LTD

(22) Date of filing : 17.07.2003

(72) Inventor : FUNAKI MITSUHIRO

BABA DAIKI
OYAMA MASAYA
HORIMUKI TOSHIYUKI

(30) Priority

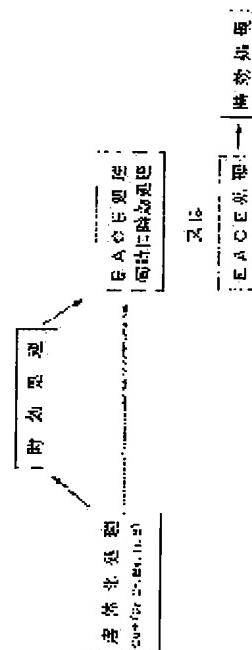
Priority number : 2002210152 Priority date : 18.07.2002 Priority country : JP

(54) COPPER ALLOY

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a copper alloy which is suitable for electrode materials for welding, materials for connectors of electrically-powered cars, etc., and is excellent in mechanical strength and thermal and electrical characteristics.

SOLUTION: An element, such as Cr, is sufficiently solutionized to parent metal (Cu) at an elevated temperature and is then rapidly cooled to obtain material of a supersaturated state. A strain is applied to this material and further, the material is subjected to aging treatment at a low temperature simultaneously with the impartation of the strain or after the strain is imparted thereto. The copper alloy having the characteristics desirable as the electrode material, for example, hardness of ≥ 30 (HRB), electrical conductivity of ≥ 85 (IACS%) and thermal conductivity of ≥ 350 (W/(mxK)) is obtained.



LEGAL STATUS

[Date of request for examination] 27.05.2004

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]